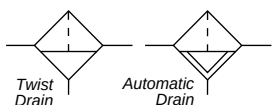


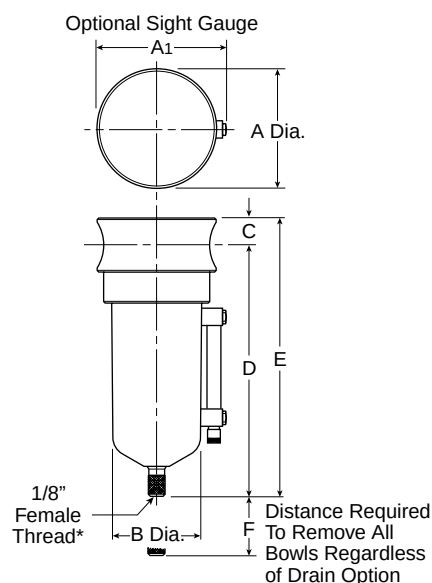
# Compressed Air Filters

## Air Preparation Units - FF10 Filter - Standard 1/2" NPT Ports



### Features

- Stainless steel construction handles most corrosive environments.
- Meets NACE specifications MR-01-75/ISO 15156.
- 1/8" female threaded drain.
- High Flow: 1/2" - 70 SCFM<sup>§</sup>



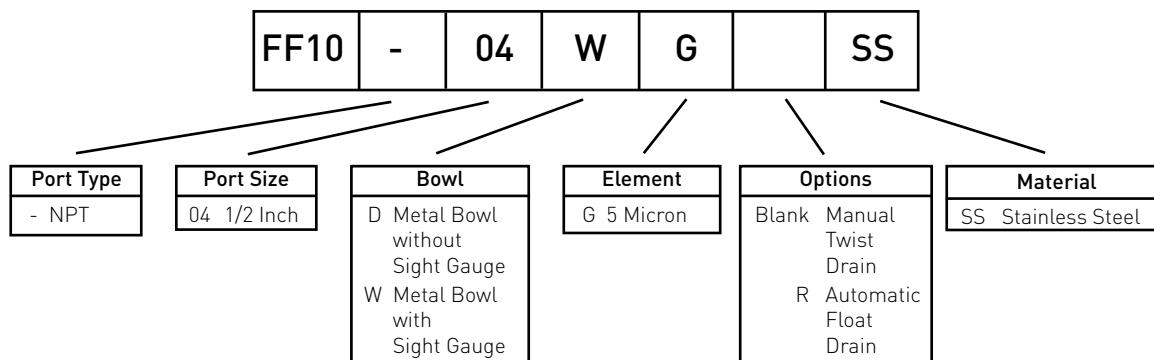
| Port Size | NPT without sight gauge |                       | NPT with sight gauge |                       |
|-----------|-------------------------|-----------------------|----------------------|-----------------------|
|           | Manual Twist Drain      | Automatic Float Drain | Manual Twist Drain   | Automatic Float Drain |
| 1/2"      | FF10-04DGSS             | FF10-04DGRSS          | FF10-04WGSS          | FF10-04WGRSS          |

<sup>§</sup> SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

| F10 Filter Dimensions    |                           |                           |
|--------------------------|---------------------------|---------------------------|
| <b>A</b><br>2.38<br>(60) | <b>A1</b><br>2.50<br>(64) | <b>B</b><br>1.75<br>(44)  |
| <b>C</b><br>.56<br>(14)  | <b>D</b><br>5.00<br>(127) | <b>E</b><br>5.56<br>(141) |
| <b>F</b><br>2.12<br>(54) |                           |                           |

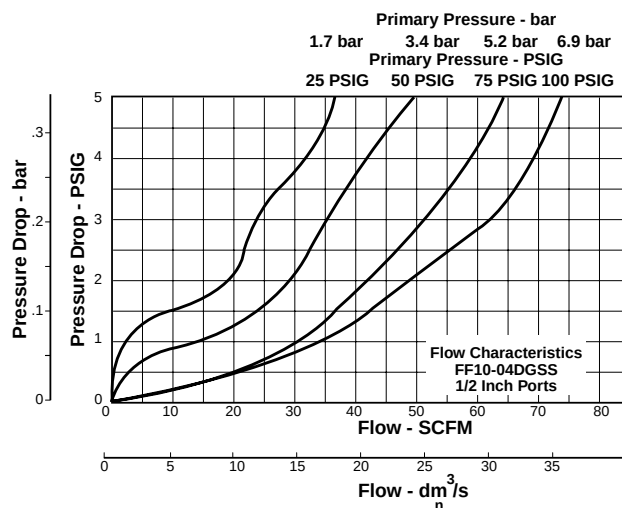
inches  
(mm)

### Ordering Information



# Compressed Air Filters

## Air Preparation Units - FF10 Air Line Filters Technical Information



### FF10 Filter Kits & Accessories

#### Drain Kit -

|                             |             |
|-----------------------------|-------------|
| Automatic Float Drain ..... | SA602MDSS   |
| Manual Twist Drain-         |             |
| Small (Old) .....           | SA600Y7-1SS |
| Large (New) .....           | SAP05481    |

#### Filter Element Kits -

|                                              |           |
|----------------------------------------------|-----------|
| Particulate (5 Micron) Element .....         | EK55G     |
| Pipe Nipple - 1/2" 316 Stainless Steel ..... | 616A28-SS |

### Specifications

|                     |            |
|---------------------|------------|
| Bowl Capacity ..... | 4.0 Ounces |
| Filter Rating ..... | 5 Micron   |
| Sump Capacity ..... | 1.7 Ounce  |
| Port Threads .....  | 1/2 Inch   |

#### Pressure & Temperature Ratings -

|                                   |                               |
|-----------------------------------|-------------------------------|
| Manual Twist Drain (D-Bowl) ..... | 0 to 300 PSIG (0 to 20.7 bar) |
|                                   | 0°F to 180°F (-18°C to 82°C)  |
| Manual Twist Drain (W-Bowl) ..... | 0 to 250 PSIG (0 to 17.2 bar) |
|                                   | 0°F to 150°F (-18°C to 66°C)  |
| Automatic Float Drain .....       | 15 to 175 PSIG (1 to 12 bar)  |
|                                   | 40°F to 125°F (4°C to 52°C)   |

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C).

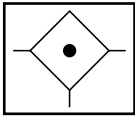
Weight .....

### Materials of Construction

|                      |                     |
|----------------------|---------------------|
| Body .....           | 316 Stainless Steel |
| Bowls .....          | 316 Stainless Steel |
| Deflector .....      | Acetal              |
| Drain .....          | 316 Stainless Steel |
| Element Holder ..... | Acetal              |
| Filter Element ..... | Polyethylene        |
| Seals .....          | Fluorocarbon        |
| Sight Gauge .....    | Isoplast            |

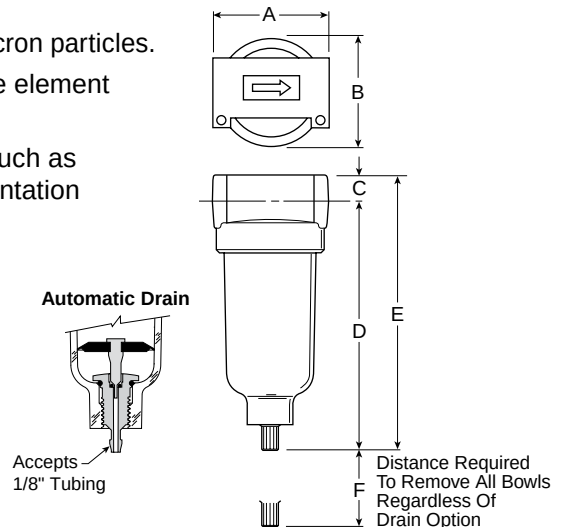
# Compressed Air Filters

## Air Preparation Units - 10F Coalescing Filters - Miniature 1/8", 1/4" Basic 1/8" Body



### Features

- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic pulse drains.
- Grade 6 element, 99.97% DOP efficiency.
- High Flow: Grade 6 Element  
1/8" – 17 SCFM<sup>§</sup>  
1/4" – 20 SCFM<sup>§</sup>  
Grade 10 Element  
1/8" – 19 SCFM<sup>§</sup>  
1/4" – 24 SCFM<sup>§</sup>



| Port Size                      | NPT            |                       |
|--------------------------------|----------------|-----------------------|
|                                | Twist Drain    | Automatic Pulse Drain |
| Poly Bowl <sup>‡</sup>         |                |                       |
| 1/8"                           | <b>10F01E*</b> | <b>10F05E*</b>        |
| 1/4"                           | <b>10F11E*</b> | <b>10F15E*</b>        |
| Metal Bowl without Sight Gauge |                |                       |
| 1/8"                           | <b>10F03E*</b> | <b>10F07E*</b>        |
| 1/4"                           | <b>10F13E*</b> | <b>10F17E*</b>        |

| 10F Coalescing Filter Dimensions |                |              |
|----------------------------------|----------------|--------------|
| A                                | B              | C            |
| 1.69<br>[43]                     | 1.56<br>[39,6] | 0.39<br>[10] |

Standard part numbers shown bold, with Grade 6 Elements (for Grade 10 Elements, replace "E" with "H" in the 6th position). For other models refer to ordering information below.

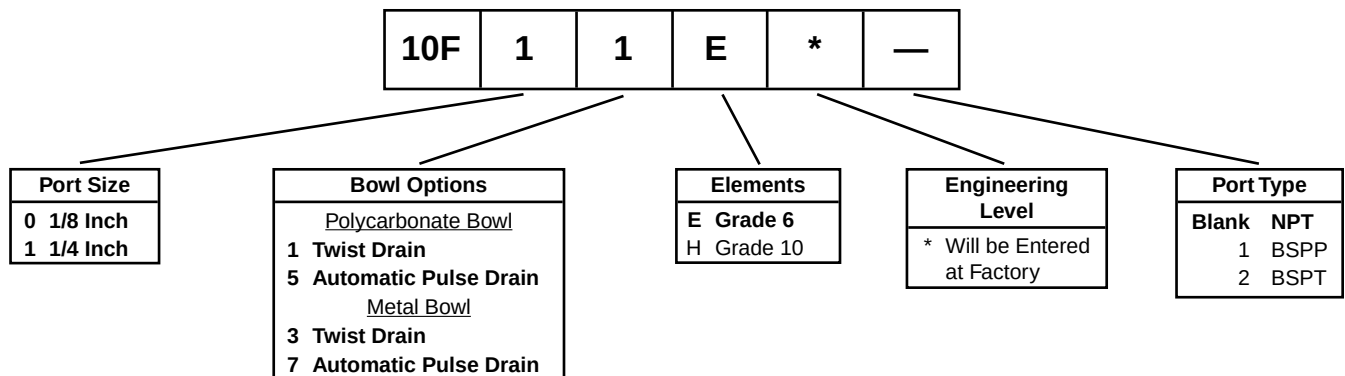
<sup>‡</sup> For polycarbonate bowl see Caution on page 2.

<sup>§</sup> SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

Inches [mm]

<sup>†</sup> With Automatic Pulse Drain.

### Ordering Information

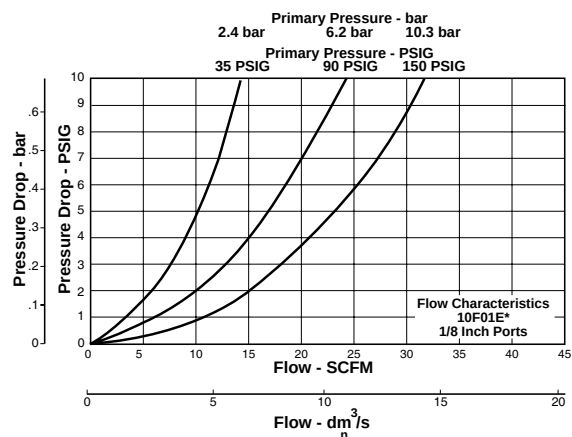
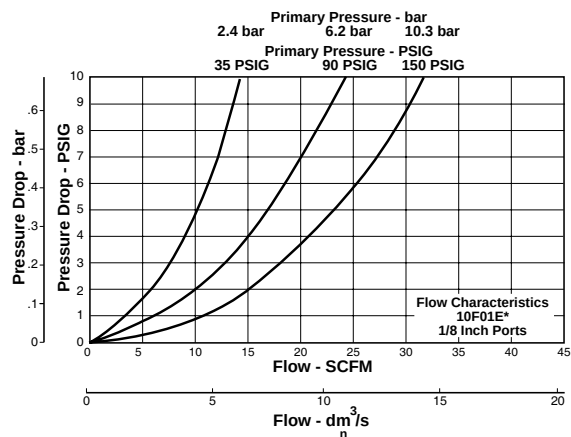


# Compressed Air Filters

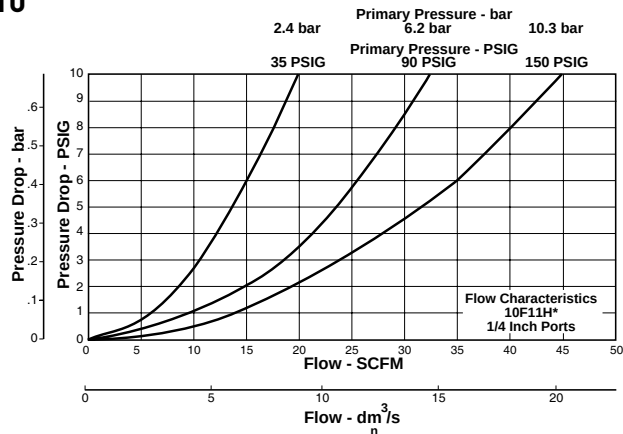
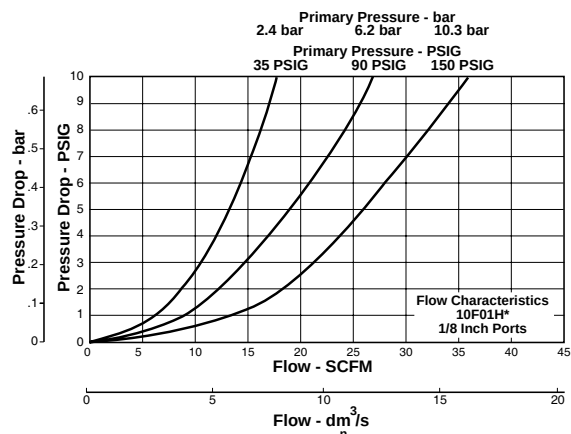
## Air Preparation Units - 10F Coalescing Filters

### Technical Information

#### Grade 6



#### Grade 10



#### 10F Coalescing Filter Kits & Accessories

##### Bowl Kits -

Poly Bowl - Automatic Pulse Drain..... PS408BP  
Twist Drain ..... PS404P

Metal Bowl - Automatic Pulse Drain..... PS451BP  
Twist Drain ..... PS447BP

Filter Element Kits - Grade 6 (Standard) ..... PS446P

Grade 10 (Optional) PS456P

Mounting Bracket Kit PS417BP

#### Specifications

Automatic Pulse Drain Tube Barb..... 1/8 Inch

Bowl Capacity ..... 1 Ounce

##### Operation -

Normal Operating Pressure Drop ..... 2 PSIG

Maximum Recommended Pressure Drop ..... 10 PSIG  
(Element should be replaced)

Port Threads ..... 1/8, 1/4 Inch

##### Pressure & Temperature Ratings -

Polycarbonate Bowl..... 0 to 150 PSIG (0 to 10.3 bar)  
32°F to 125°F (0°C to 52°C)

Metal Bowl..... 0 to 250 PSIG (0 to 17.2 bar)  
32°F to 175°F (0°C to 80°C)

Automatic Pulse Drain..... 10 to 250 PSIG (0.7 to 17.2 bar)  
at 125°F (52°C) or less

Weight ..... 0.41 lb. (0.18 kg)

#### Materials of Construction

Body ..... Zinc

Bowls ..... Transparent Polycarbonate

Metal (Zinc) Without Sight Gauge

##### Drains - Twist Drain -

Body & Stem ..... Plastic

Seals..... Nitrile

##### Automatic Pulse Drain -

Piston & Seals..... Nitrile

Stem, Seat, Adaptor & Washers ..... Aluminum

Element Holder ..... Plastic

##### Filter Element -

Borosilicate & felt glass fibers 99.97% DOP efficiency

Largest Aerosol Particle Passed (Grade 6) ..... 0.01 Micron

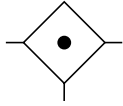
Largest Solid Particle Passed (Grade 6) ..... 0.30 Micron

Seals ..... Nitrile

# Compressed Air Filters

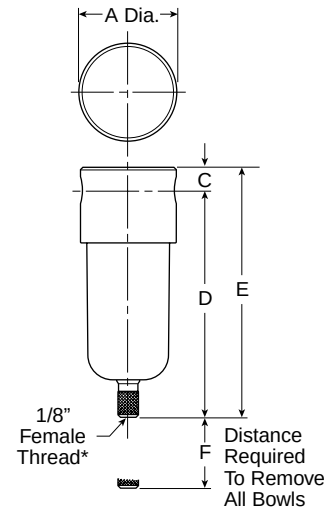
## Air Preparation Units

### FF501 Coalescing Filter - Miniature



#### Features

- Stainless steel construction handles most corrosive environments.
- Meets NACE specifications MR-01-75/ISO 15156.
- 1/8" female threaded drain\*.
- High Flow: 1/4" - 16 SCFM<sup>§</sup>



| Port Size | NPT                 |
|-----------|---------------------|
|           | Manual Twist Drain  |
| 1/4"      | <b>FF501-02DHSS</b> |

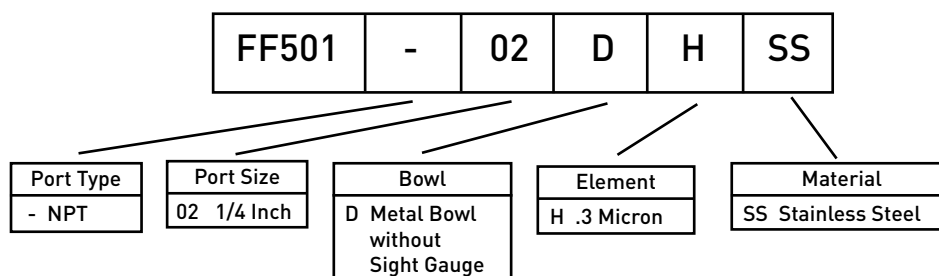
Standard part numbers shown bold. For other models refer to ordering information below.

SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

| F501 Coalescing Filter Dimensions |              |              |
|-----------------------------------|--------------|--------------|
| A                                 | C            | D            |
| 1.56<br>(40)                      | 0.31<br>(8)  | 3.69<br>(94) |
| E                                 | F            |              |
| 4.00<br>(102)                     | 1.58<br>(40) |              |

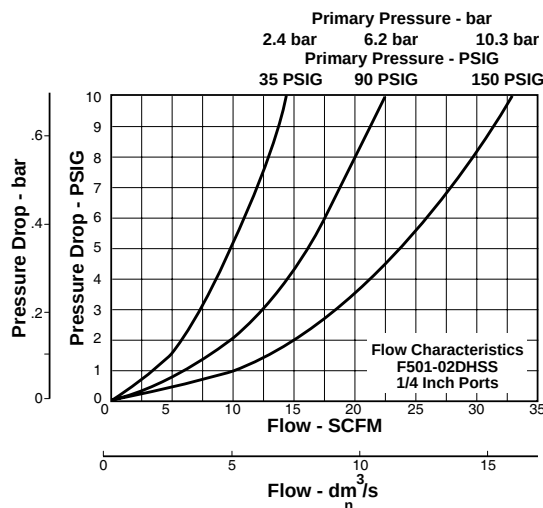
inches  
(mm)

#### Ordering Information



# Compressed Air Filters

## Air Preparation Units - F501 Series Technical Information



### FF501 Filter Kits & Accessories

|                                |             |
|--------------------------------|-------------|
| Filter Element Kits –          |             |
| 0.3 Micron .....               | EKF31       |
| Manual Twist Drain –           |             |
| Small (Old) .....              | SA600Y7-1SS |
| Large (New) .....              | SAP05481    |
| Pipe Nipple –                  |             |
| 1/4" 316 Stainless Steel ..... | 616Y28-SS   |

### Specifications

|                                  |                               |
|----------------------------------|-------------------------------|
| Bowl Capacity .....              | 1.0 Ounces                    |
| Filter Rating .....              | 0.3 Micron                    |
| Port Threads .....               | 1/4 Inch                      |
| Pressure & Temperature Ratings – |                               |
| Manual Twist Drain.....          | 0 to 300 PSIG (0 to 20.7 bar) |

0°F to 180°F (-18°C to 82°C)

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C)

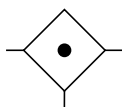
|                     |                   |
|---------------------|-------------------|
| Sump Capacity ..... | 0.4 Ounce         |
| Weight .....        | 0.6 lb. (0.27 kg) |

### Materials of Construction

|                      |                     |
|----------------------|---------------------|
| Body .....           | 316 Stainless Steel |
| Bowls .....          | 316 Stainless Steel |
| Drain .....          | 316 Stainless Steel |
| Element Holder ..... | Acetal              |
| Filter Element ..... | Borosilicate Fiber  |
| Seals .....          | Fluorocarbon        |

# Compressed Air Filters

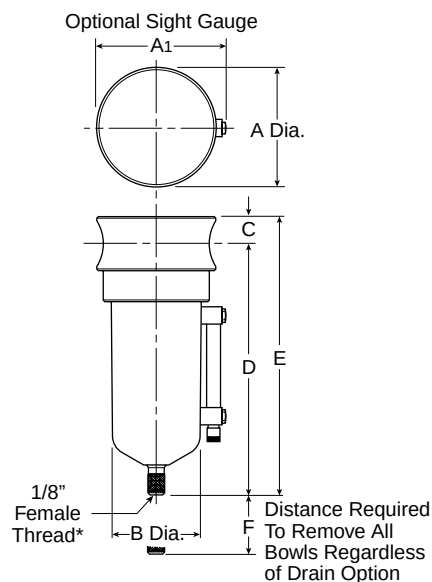
## Air Preparation Units - FF11 Coalescing Filter Standard 1/2" Ports



### Features

- Stainless steel construction handles most corrosive environments.
- Meets NACE specifications MR-01-75/ISO 15156.
- 1/8" female threaded drain\*.
- High Flow: 1/2" - 45 SCFM<sup>§</sup>

\* Beginning January 2008



| Port Size | NPT without sight gauge            |                       | NPT with sight gauge |                       |
|-----------|------------------------------------|-----------------------|----------------------|-----------------------|
|           | Manual Twist Drain                 | Automatic Float Drain | Manual Twist Drain   | Automatic Float Drain |
| 1/2"      | <b>Metal Bowl With Sight Gauge</b> |                       |                      |                       |
|           | <b>F11-04DJSS</b>                  | <b>F11-04DJRSS</b>    | <b>F11G04WJSS</b>    | <b>F11G04WJRSS</b>    |

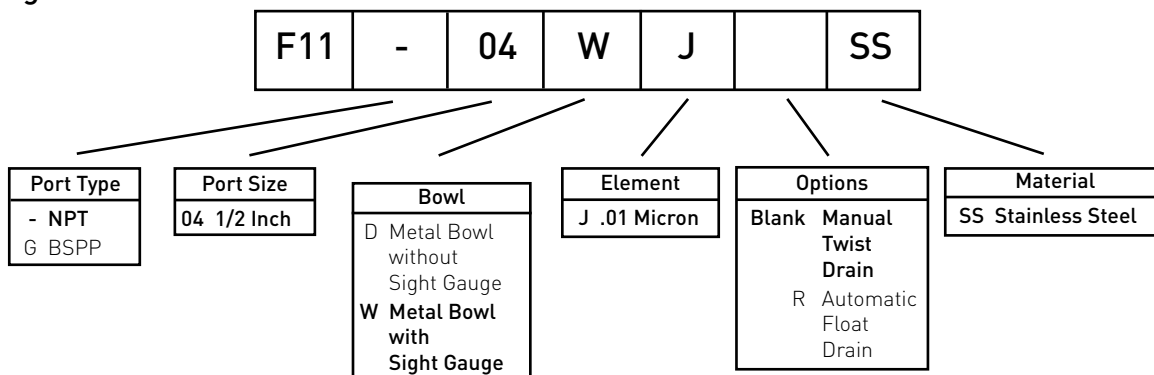
Standard part numbers shown bold. For other models refer to ordering information below.

<sup>§</sup> SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

| F11 Coalescing Filter Dimensions |               |               |
|----------------------------------|---------------|---------------|
| A                                | A1            | B             |
| 2.38<br>(60)                     | 2.50<br>(64)  | 1.75<br>(44)  |
| C                                | D             | E             |
| 0.56<br>(14)                     | 5.00<br>(127) | 5.56<br>(141) |
| F                                |               |               |
| 2.12<br>(54)                     |               |               |

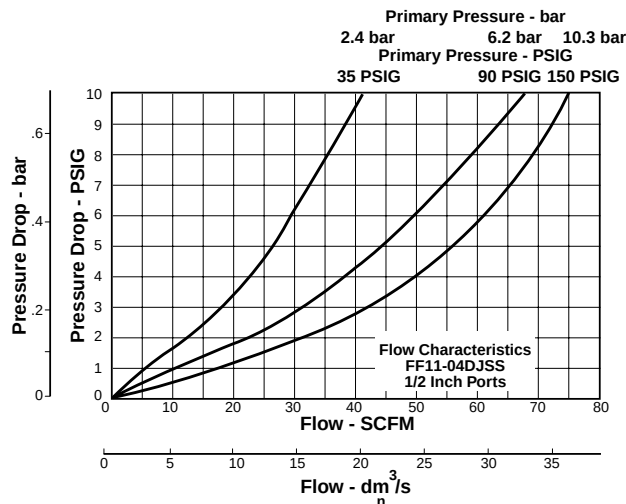
inches  
(mm)

### Ordering Information



# Compressed Air Filters

## Air Preparation Units - FF11 Series Technical Information



### F11 Filter Kits & Accessories

#### Drain Kit -

|                             |             |
|-----------------------------|-------------|
| Automatic Float Drain ..... | SA602MDSS   |
| Manual Twist Drain-         |             |
| Small (Old) .....           | SA600Y7-1SS |
| Large (New) .....           | SAP05481    |

#### Filter Element Kits -

|                  |       |
|------------------|-------|
| 0.3 Micron ..... | EKF71 |
|------------------|-------|

#### Pipe Nipple -

|                                |           |
|--------------------------------|-----------|
| 1/2" 316 Stainless Steel ..... | 616A28-SS |
|--------------------------------|-----------|

### Specifications

Bowl Capacity ..... 4.0 Ounces

Filter Rating ..... 0.01 Micron

Sump Capacity ..... 1.7 Ounce

Port Threads ..... 1/2 Inch

#### Pressure & Temperature Ratings -

|                              |                                                               |
|------------------------------|---------------------------------------------------------------|
| Manual Twist Drain .....     | 0 to 300 PSIG (0 to 20.7 bar)<br>0°F to 180°F (-18°C to 82°C) |
| Manual Twist Drain (W) ..... | 0 to 250 PSIG (0 to 17.2 bar)<br>0°F to 150°F (-18°C to 66°C) |
| Automatic Float Drain .....  | 0 to 175 PSIG (0 to 12 bar)<br>40°F to 125°F (4°C to 52°C)    |

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C).

Weight ..... 1.9 lb. (0.85 kg)

### Materials of Construction

Body ..... 316 Stainless Steel

Bowls ..... 316 Stainless Steel

Drain ..... 316 Stainless Steel

|                      |                    |
|----------------------|--------------------|
| Element Holder ..... | Acetal             |
| Filter Element ..... | Borosilicate Fiber |
| Seals .....          | Fluorocarbon       |
| Sight Gauge .....    | Isoplast           |

### FF11 Media Specifications

| Grade Designation | Coalescing Efficiency<br>0.3 to 0.6 Micron Particles | Maximum Oil Carryover <sup>1</sup><br>PPM w/w | Micron Rating | Pressure Drop (PSID)<br>@ Rated Flow <sup>2</sup> |                              | Flow:<br>SCFM<br>@3 PSID<br>Operating Pressure<br>100 PSIG |
|-------------------|------------------------------------------------------|-----------------------------------------------|---------------|---------------------------------------------------|------------------------------|------------------------------------------------------------|
|                   |                                                      |                                               |               | Media Dry                                         | Media Wet With 10-20 wt. oil |                                                            |
| 6                 | 99.97%                                               | 0.008                                         | 0.01          | 1.0                                               | 2-3                          | ??                                                         |
| 10                | 95%                                                  | 0.85                                          | 1.0           | 0.5                                               | 0.5                          | ??                                                         |

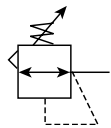
<sup>1</sup>Tested per ISO 12500-1 at 40 ppm inlet.

<sup>2</sup>Add dry + wet for total pressure drop.



# Compressed Air Filters

## Air Preparation Units - FR364 Regulator -Miniature 1/4" Ports



### Features

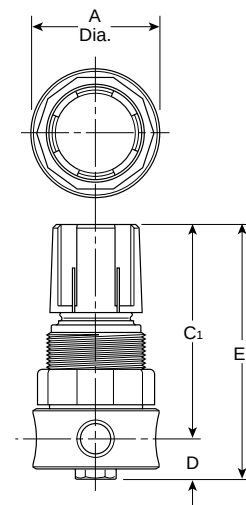
- Stainless steel construction handles most corrosive environments.
- Large diaphragm to valve area ratio for precise regulation and high flow capacity.
- Meets NACE specifications MR-01-75/ISO 15156.
- High Flow: 1/4" – 12 SCFM<sup>§</sup>



R364

| Series | Adjustment Type | Port Size | NPT        |
|--------|-----------------|-----------|------------|
| FR364  | Knob            | 1/4"      | R364-02CSS |

<sup>§</sup> SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 15 PSIG pressure drop.



R364

| R364 Regulator Dimensions |                |
|---------------------------|----------------|
| A                         | C <sub>1</sub> |
| 1.56<br>(40)              | 2.56<br>(65)   |
| D                         | E <sub>1</sub> |
| 0.50<br>(13)              | 3.06<br>(78)   |

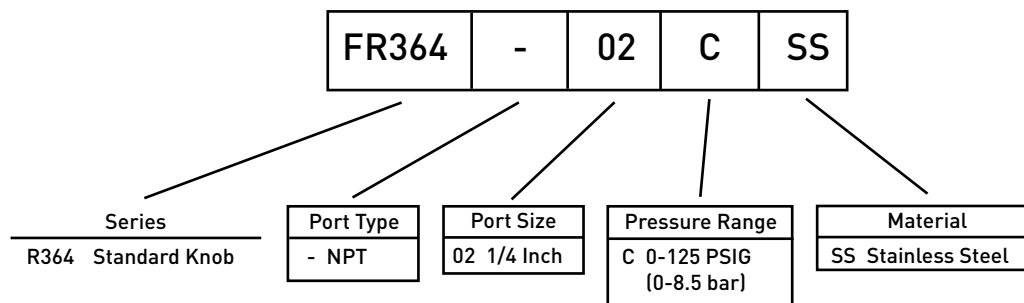
inches (mm)

NOTE: 1.25 Dia.  
(32mm) hole  
required for panel  
mounting.

### WARNING

Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.

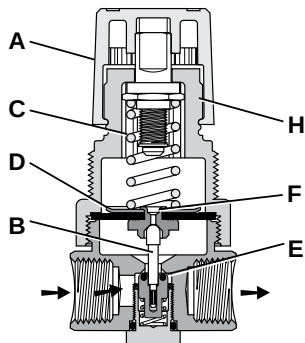
## Ordering Information



# Compressed Air Filters

## Air Preparation Units FR364 Air Line Regulators Technical Information

### Operation



FR364

With the adjusting knob (A) turned fully counter-clockwise (no spring load), and pressure supplied to the regulator inlet port, the valve poppet assembly (B) is closed. Turning the adjusting knob clockwise applies a load to control spring (C). This load causes the diaphragm (D) and the valve poppet assembly (B) to move downward allowing flow across the seat area (E) created between the poppet assembly and the seat. Pressure in the downstream line is sensed below the diaphragm (D) and offsets the load of spring (C). As downstream pressure rises, poppet assembly (B) and diaphragm (D) move upward until the area (E) is closed and the load of the spring (C) and pressure under diaphragm (D) are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the diaphragm (D). The load of control spring (C) now causes the poppet assembly to move downward opening seat area (E) allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening (E).

Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm (D) to move upward against control spring (C), open vent hole (F), and vent the excess pressure to atmosphere through the hole in the bonnet (H). (This occurs in the relieving type regulator only.)

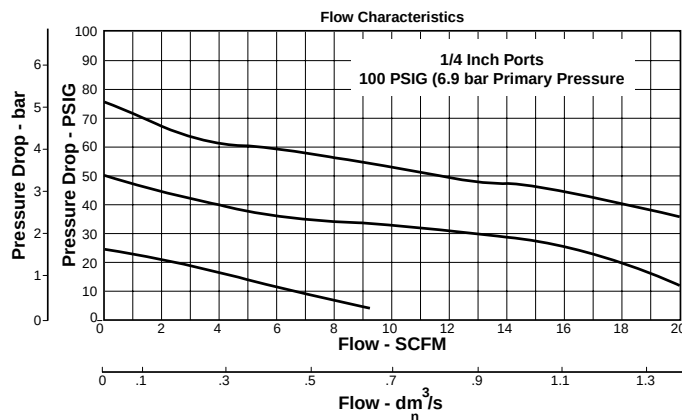
### Technical Information

#### CAUTION:

##### REGULATOR PRESSURE ADJUSTMENT -

The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



#### FR364 Regulator Kits & Accessories

|                                       |               |
|---------------------------------------|---------------|
| R364 Bonnet Kit (Knob Included) ..... | CKR364YSS     |
| Gauge -                               |               |
| 160 PSIG (0 to 1100 kPa) .....        | K4515N14160SS |
| Panel Mount Bracket (Stainless) ..... | 161X57-SS     |
| Panel Mount Nut -                     |               |
| Stainless .....                       | R05X51-SS     |
| Plastic .....                         | R05X51-P      |
| Service Kit -                         |               |
| Relieving .....                       | RKR364YSS     |
| Springs -                             |               |
| 0-125 PSIG Range .....                | SPR-377-1-SS  |

#### Specifications

|                                  |                             |
|----------------------------------|-----------------------------|
| Gauge Port .....                 | 1/4 Inch                    |
| Operation .....                  | Fluorocarbon Diaphragm      |
| Port Threads .....               | 1/4 Inch                    |
| Pressure & Temperature Ratings - | 300 PSIG Max (20.7 bar)     |
|                                  | 40°F to 150°F (4°C to 66°C) |
| Weight .....                     | 0.5 lb. (0.23 kg)           |

#### Materials of Construction

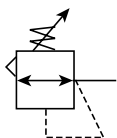
|                                      |                     |
|--------------------------------------|---------------------|
| Adjustment Mechanism / Springs ..... | 316 Stainless Steel |
| Adjusting Knob (R364) .....          | Polypropylene       |
| Body .....                           | 316 Stainless Steel |
| Bonnet (R364) .....                  | Acetal              |
| Bottom Plug .....                    | 316 Stainless Steel |
| Poppet .....                         | 316 Stainless Steel |
| Seals .....                          | Fluorocarbon        |



# Compressed Air Filters

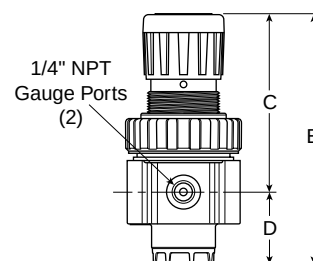
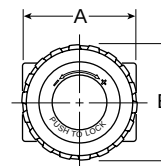
## Air Preparation Units - 05R Regulators - Economy

### 1/4", 3/8" NPT - Basic 1/4" Body



#### Features

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Rolling diaphragm for extended life.
- Removable non-rising knob for panel mounting and tamper resistance.
- Easily serviced.
- Reverse Flow.
- High Flow: 1/4" – 30 SCFM<sup>§</sup>  
3/8" – 40 SCFM<sup>§</sup>



| Port Size          | NPT      |
|--------------------|----------|
| Without Gauge      |          |
| 1/4"               | 05R113A* |
| 3/8"               | 05R213A* |
| With 160 PSI Gauge |          |
| 1/4"               | 05R118A* |
| 3/8"               | 05R218A* |

| 05R Regulator Dimensions |               |              |
|--------------------------|---------------|--------------|
| A                        | B             | C            |
| 2.00<br>(51)             | 2.06<br>(52)  | 3.16<br>(80) |
| D                        | E             |              |
| 1.28<br>(32)             | 4.44<br>(113) |              |

NOTE: 1.53 Dia. (39mm) hole required for panel mounting.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

## Ordering Information

|     |   |    |   |   |   |   |     |
|-----|---|----|---|---|---|---|-----|
| 05R | 1 | 13 | A | * | — | — | --- |
|-----|---|----|---|---|---|---|-----|

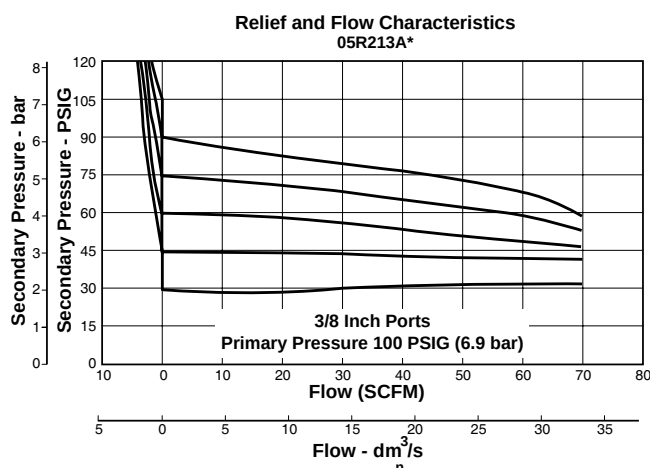
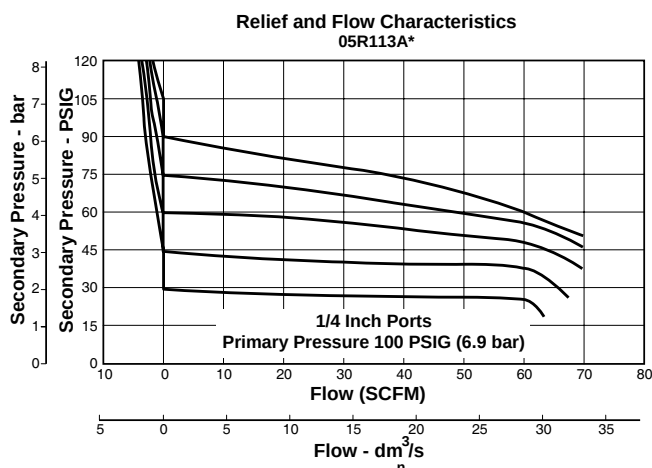
| Port Size                | Pressure Range                                                  | Relief      | Engineering Level            | Port Type                                                   | Options                                                                                     | Preset / Pressure Limited |
|--------------------------|-----------------------------------------------------------------|-------------|------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------|
| 1 1/4 Inch<br>2 3/8 Inch | Without Gauge<br>13 125 PSIG<br><br>With Gauge**<br>18 125 PSIG | A Relieving | * Will be Entered at Factory | Blank NPT<br><br>* 1/4 & 3/8 inch meet ISO 1179-1 Standard. | Blank No Options<br><br>† Inlet Pressure is 100 PSIG. For other pressures, contact factory. | Blank None                |

\*\* Includes 1-1/2" Dial Face Gauge

# Compressed Air Filters

## Air Preparation Units 05R Air Line Regulators

### Technical Information



#### CAUTION:

**REGULATOR PRESSURE ADJUSTMENT** – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



#### WARNING

Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.

#### 05R Regulator Kits & Accessories

|                                |             |
|--------------------------------|-------------|
| Bonnet Assembly Kit .....      | PS915P      |
| Control Knob .....             | P04420      |
| Gauges – 1-1/2" Dial Face ???? |             |
| 30 PSIG [0 to 2.1 bar] .....   | K4515N14030 |
| 60 PSIG [0 to 4.1 bar] .....   | K4515N14060 |
| 160 PSIG [0 to 11.0 bar] ..... | K4515N14160 |
| 300 PSIG [0 to 20.0 bar] ..... | K4515N14300 |
| 2" Dial Face                   |             |
| 60 PSIG [0 to 4.1 bar] .....   | K4520N14060 |
| 160 PSIG [0 to 11.0 bar] ..... | K4520N14160 |

|                                 |        |
|---------------------------------|--------|
| Mounting Bracket Kit .....      | PS963P |
| Panel Mount Nut – Metal .....   | PS964P |
| Springs – 1-30 PSIG Range ..... | P04427 |
| 1-60 PSIG Range .....           | P04426 |
| 2-125 PSIG Range .....          | P04425 |
| 2-200 PSIG .....                | P02934 |
| Service Kit – Relieving .....   | PS908P |

#### Specifications

|                                                 |                               |
|-------------------------------------------------|-------------------------------|
| Gauge Ports (2) .....                           | 1/4 Inch                      |
| Port Threads .....                              | 1/4, 3/8 Inch                 |
| Primary Pressure Rating –                       |                               |
| Maximum Primary Pressure .....                  | 250 PSIG (17.2 bar) Max.      |
| For Secondary Pressure Ranges see above charts. |                               |
| Temperature Rating .....                        | 32°F to 175°F [0°C to 80°C]   |
| Low Temperature .....                           | -4°F to 125°F [-20°C to 52°C] |
| Weight .....                                    | 1.1 lb. (0.49 kg)             |

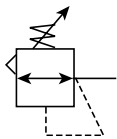
#### Materials of Construction

|                                  |         |
|----------------------------------|---------|
| Adjusting Stem .....             | Brass   |
| Bonnet .....                     | Plastic |
| Body .....                       | Zinc    |
| Collar, Knob .....               | Plastic |
| Diaphragm .....                  | Nitrile |
| Poppet & Cap .....               | Plastic |
| Seals .....                      | Nitrile |
| Springs – Poppet & Control ..... | Steel   |



# Compressed Air Filters

## Air Preparation Units - FR10 Regulator - Standard 1/2" Ports

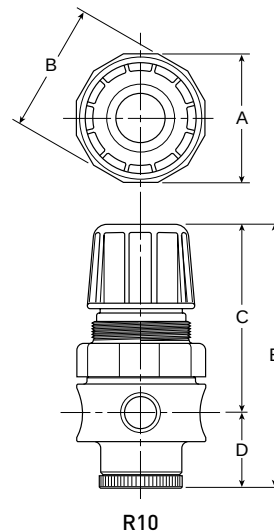


### Features

- Stainless steel construction handles most corrosive environments.
- Large diaphragm to valve area ratio for precise regulation and high flow capacity.
- Meets NACE specifications MR-01-75/ISO 15156.
- Low temperature version available.
- High Flow: 1/2" – 80 SCFM<sup>§</sup>



R10



R10

| Port Size | NPT        |
|-----------|------------|
| 1/2"      | FR10-04CSS |

<sup>§</sup> SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 15 PSIG pressure drop.

| R10, R11 Regulator Dimensions |               |              |
|-------------------------------|---------------|--------------|
| A                             | B             | C            |
| 2.34<br>(60)                  | 2.43<br>(62)  | 3.59<br>(91) |
| D                             | E             |              |
| 1.38<br>(35)                  | 4.97<br>(126) |              |

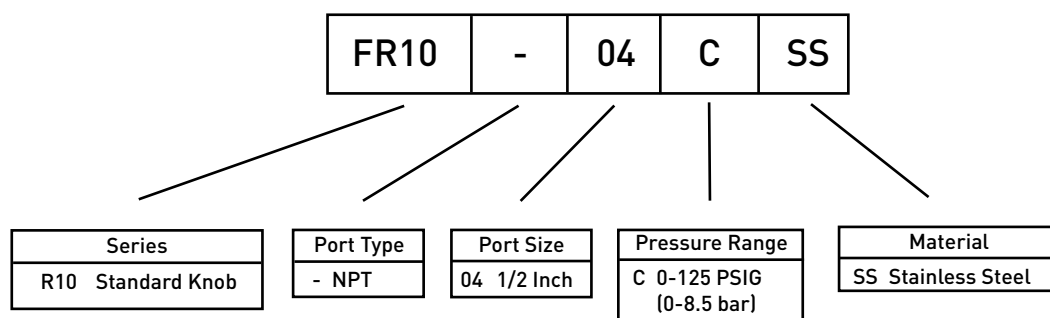
inches (mm)  
NOTE: 1.75 Dia. (44mm) hole required for panel mounting.



### WARNING

Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.

### Ordering Information

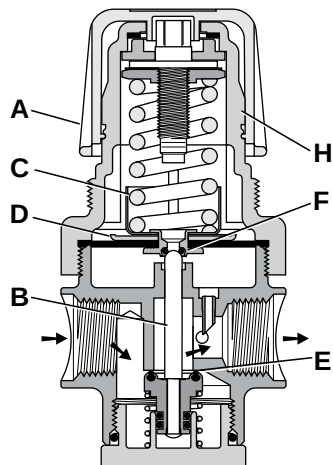


# Compressed Air Filters

## Air Preparation Units FR10 Air Line Regulators

### Technical Information

#### Operation



With the adjusting knob **(A)** turned fully counter-clockwise (no spring load), and pressure supplied to the regulator inlet port, the valve poppet assembly **(B)** is closed. Turning the adjusting knob clockwise applies a load to control spring **(C)**. This load causes the diaphragm **(D)** and the valve poppet assembly **(B)** to move downward allowing flow across the seat area **(E)** created between the poppet assembly and the seat. Pressure in the downstream line is sensed below the diaphragm **(D)** and offsets the load of spring **(C)**. As downstream pressure rises, poppet assembly **(B)** and diaphragm **(D)** move upward until the area **(E)** is closed and the load of the spring **(C)** and pressure under diaphragm **(D)** are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the diaphragm **(D)**. The load of control spring **(C)** now causes the poppet assembly to move downward opening seat area **(E)** allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening **(E)**.

Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm **(D)** to move upward against control spring **(C)**, open vent hole **(F)**, and vent the excess pressure to atmosphere through the hole in the bonnet **(H)**. (This occurs in the relieving type regulator only.)

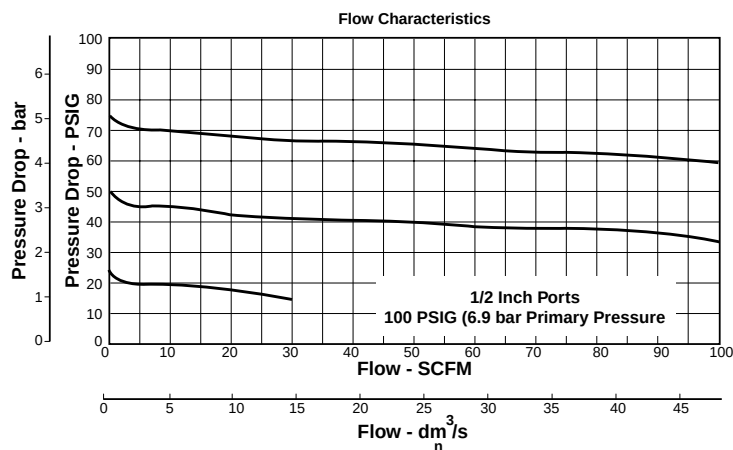
#### Technical Information

##### CAUTION:

##### REGULATOR PRESSURE ADJUSTMENT –

The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



#### FR10 Regulator Kits & Accessories

|                                        |               |
|----------------------------------------|---------------|
| R10 Bonnet Kit (Knob Included) .....   | CKR10YSS      |
| Gauge –                                |               |
| 160 PSIG (0 to 1100 kPa), 2" Face..... | K4520N14160SS |
| Panel Mount Bracket (Stainless).....   | 161X57-SS     |
| Panel Mount Nut –                      |               |
| Stainless .....                        | R10X51-SS     |
| Plastic.....                           | R10X51-P      |
| Service Kit –                          |               |
| Relieving .....                        | RKR10YSS      |
| Springs –                              |               |
| 0-125 PSIG Range .....                 | SPR-389-1-SS  |

#### Specifications

|                                        |                              |
|----------------------------------------|------------------------------|
| Gauge Port .....                       | 1/4 Inch                     |
| Operation .....                        | Fluorocarbon Diaphragm       |
| Port Threads .....                     | 1/2 Inch                     |
| Pressure & Temperature Ratings – ..... | 300 PSIG Max (20.7 bar)      |
|                                        | 0°F to 150°F (-18°C to 66°C) |

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C).

Weight .....

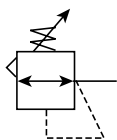
#### Materials of Construction

|                                      |                     |
|--------------------------------------|---------------------|
| Adjustment Mechanism / Springs ..... | 316 Stainless Steel |
| Body .....                           | 316 Stainless Steel |
| Bonnet / Knob (R10) .....            | Acetal              |
| Bottom Plug .....                    | 316 Stainless Steel |
| Poppet .....                         | 316 Stainless Steel |
| Seals .....                          | Fluorocarbon        |



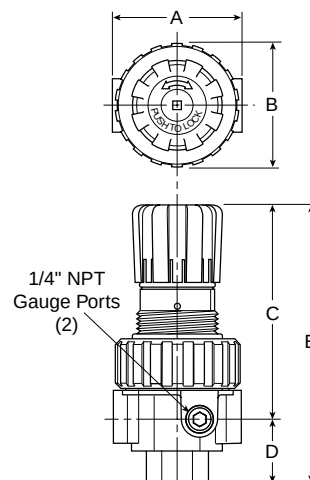
# Compressed Air Filters

## Air Preparation Units - 07R Regulators - Standard 3/8", 1/2", 3/4" NPT - Basic 1/2" Body



### Features

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Rolling diaphragm for extended life.
- Two high flow 1/4" gauge ports can be used as additional outlets.
- Easily serviced.
- Removable non-rising knob for panel mounting and tamper resistance.
- High Flow: 3/8" – 70 SCFM<sup>§</sup>  
1/2" – 90 SCFM<sup>§</sup>  
3/4" – 90 SCFM<sup>§</sup>



| Port Size     | NPT      |
|---------------|----------|
| Without Gauge |          |
| 3/8"          | 07R213A* |
| 1/2"          | 07R313A* |
| 3/4"          | 07R413A* |

NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

| 07R Regulator Dimensions |               |               |
|--------------------------|---------------|---------------|
| A                        | B             | C             |
| 3.24<br>(82)             | 2.74<br>(70)  | 4.79<br>(122) |
| D                        | E             |               |
| 1.61<br>(41)             | 6.40<br>(163) |               |

### ⚠ WARNING

Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.

### Ordering Information

|     |   |    |   |   |   |   |     |
|-----|---|----|---|---|---|---|-----|
| 07R | 3 | 13 | A | * | — | — | --- |
|-----|---|----|---|---|---|---|-----|

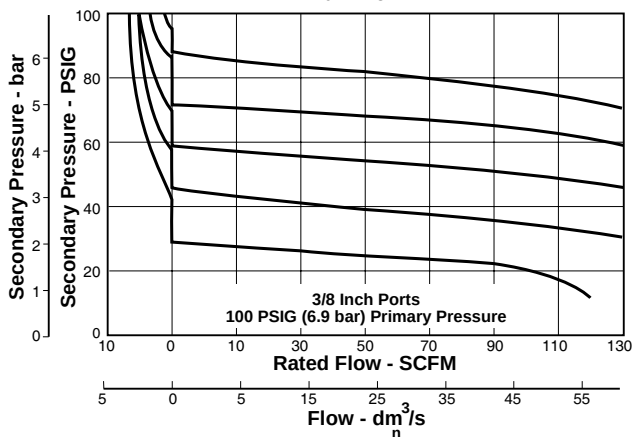
| Port Size                                  | Pressure Range               | Relief      | Engineering Level            | Port Type                                                           | Options          | Preset / Pressure Limited |
|--------------------------------------------|------------------------------|-------------|------------------------------|---------------------------------------------------------------------|------------------|---------------------------|
| 2 3/8 Inch<br>3 1/2 Inch<br>4 3/4 Inch     | Without Gauge<br>13 125 PSIG | A Relieving | * Will be Entered at Factory | Blank NPT                                                           | Blank No Options | Blank None                |
| * 3/8 & 1/2 inch meet ISO 1179-1 Standard. |                              |             |                              | † Inlet Pressure is 100 PSIG. For other pressures, contact factory. |                  |                           |

# Compressed Air Filters

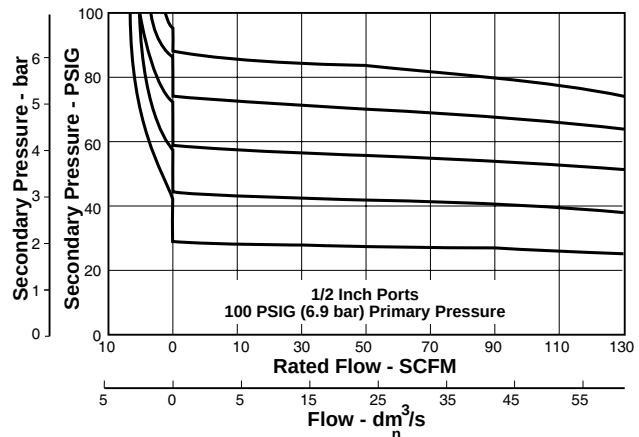
## Air Preparation Units 07R Air Line Regulators

### Technical Information

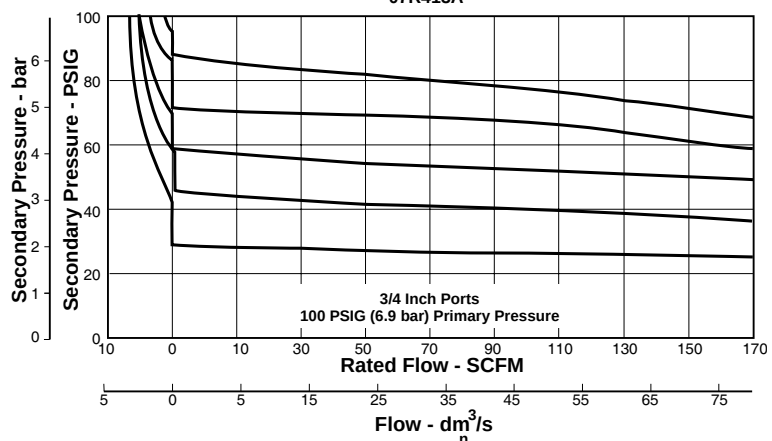
Relief And Flow Characteristics  
07R213A\*



Relief And Flow Characteristics  
07R313A\*



Relief And Flow Characteristics  
07R413A\*



#### CAUTION:

##### REGULATOR PRESSURE ADJUSTMENT -

The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

#### 07R Regulator Kits & Accessories

|                                                       |             |
|-------------------------------------------------------|-------------|
| Bonnet Assembly Kit .....                             | PS715P      |
| Control Knob .....                                    | P04069B     |
| Gauges - 60 PSIG (0 to 4.1 bar) .....                 | K4520N14060 |
| 160 PSIG (0 to 11.0 bar) .....                        | K4520N14160 |
| Mounting Bracket Kit (Includes Panel Mount Nut) ..... | PS807P      |
| Panel Mount Nut - Plastic .....                       | P04082      |
| Metal .....                                           | P04079B     |
| Service Kit - Relieving (Includes Poppet) .....       | PS808P      |
| Springs - 2-125 PSIG Range .....                      | P04063      |
| Tamperproof Kit .....                                 | PS737P      |

#### Specifications

|                                                             |                              |
|-------------------------------------------------------------|------------------------------|
| Gauge Ports (2) .....                                       | 1/4 Inch                     |
| (Can be used as additional High Flow 1/4 Inch Outlet Ports) |                              |
| Port Threads .....                                          | 3/8, 1/2, 3/4 Inch           |
| Primary Pressure Rating -                                   |                              |
| Maximum Primary Pressure .....                              | 250 PSIG (17.2 bar)          |
| Secondary Pressure Range -                                  |                              |
| Standard Pressure .....                                     | 2 to 125 PSIG (0 to 8.6 bar) |
| Temperature Rating .....                                    | 32°F to 175°F (0°C to 80°C)  |
| Weight 2.5 lb. (1.1 kg)                                     |                              |

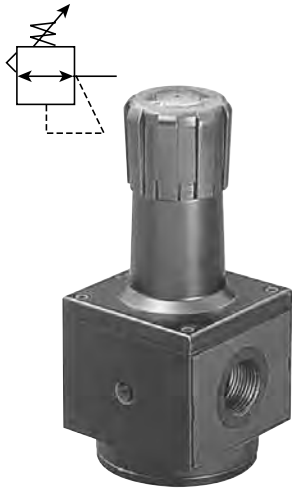
#### Materials of Construction

|                                               |           |
|-----------------------------------------------|-----------|
| Adjusting Stem .....                          | Steel     |
| Body .....                                    | Zinc      |
| Bonnet, Piston Stem, Valve Poppet & Cap ..... | Plastic   |
| Collar, Knob .....                            | Plastic   |
| Diaphragm .....                               | Nitrile   |
| Seals .....                                   | Nitrile   |
| Springs - Poppet .....                        | Stainless |
| Control .....                                 | Steel     |



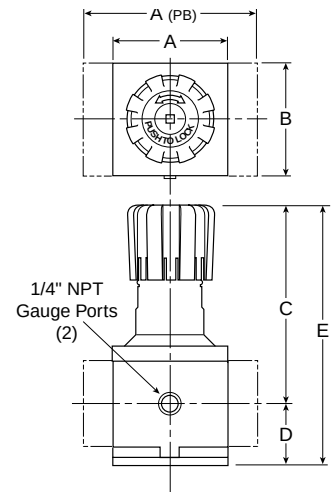
# Compressed Air Filters

## Air Preparation Units - P3NR Regulators - High Flow 3/4", 1", 1 1/2" NPT - Basic 1" Body



### Features

- Port blocks (PB) available to provide 1-1/2" port extension to 1" ported bodies.
- Self relieving feature plus balanced poppet provides quick response and accurate pressure regulation.
- Solid control piston for extended life.
- High Flow: 3/4" – 200 SCFM<sup>§</sup>  
1" – 300 SCFM<sup>§</sup>  
1 1/2" – 300 SCFM<sup>§</sup>



| Port Size     | NPT        |
|---------------|------------|
| Without Gauge |            |
| 3/4"          | P3NRA96BNN |
| 1"            | P3NRA98BNN |
| 1 1/2"        | P3NRA9PBNN |

| P3NR Regulator Dimensions |                   |               |
|---------------------------|-------------------|---------------|
| A                         | A <sup>(PB)</sup> | B             |
| 3.62<br>(92)              | 5.91<br>(150)     | 3.62<br>(92)  |
| C                         | D                 | E             |
| 6.38<br>(162)             | 2.08<br>(53)      | 8.46<br>(215) |

NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

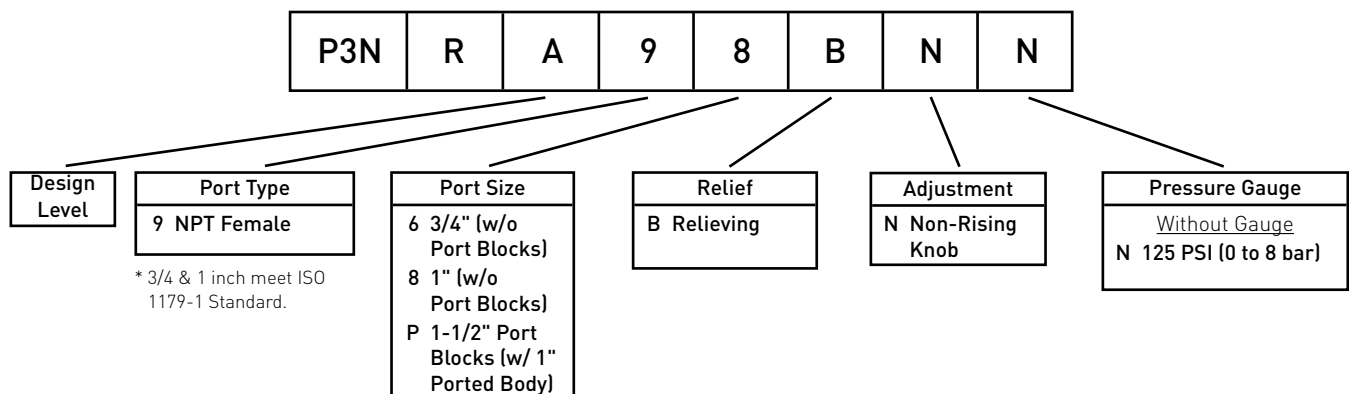
§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.



### WARNING

Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.

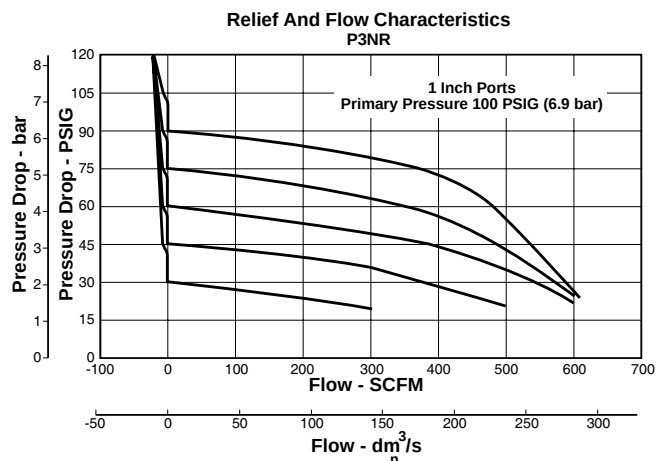
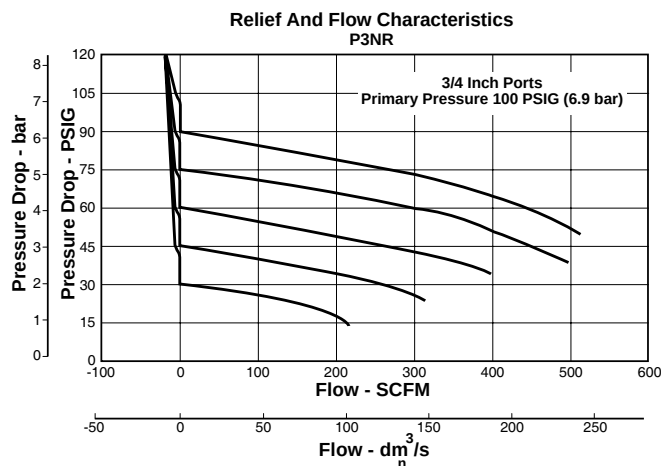
## Ordering Information



# Compressed Air Filters

## Air Preparation Units - P3NR Air Line Regulators

### Technical Information

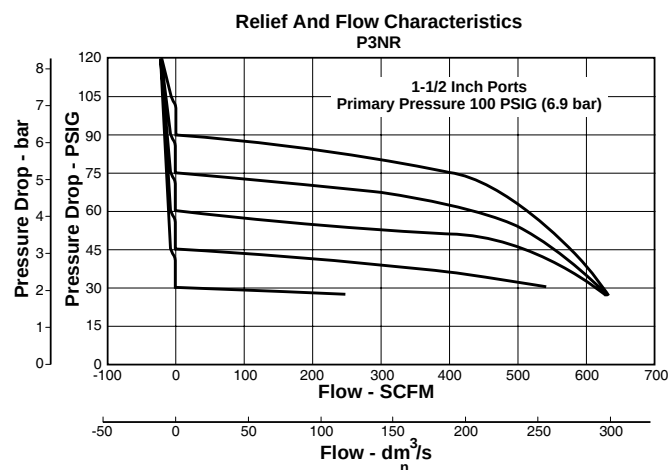


#### CAUTION:

##### REGULATOR PRESSURE ADJUSTMENT –

The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



#### P3NR Regulator Kits & Accessories

Control Knob P3NKA00PN

Gauges – 60 PSIG (0 to 4.1 bar) ..... K4520N14060  
160 PSIG (0 to 11.0 bar) ..... K4520N14160

Mounting Bracket Kit\* ..... P3NKA00MW

Service Kit – Relieving ..... P3NKA00RR

Springs – 2-125 PSIG Range ..... C10A1308

#### Specifications

Gauge Ports (2) ..... 1/4 Inch  
(Can be used as additional High Flow 1/4 Inch Outlet Ports)

Port Threads ..... 3/4, 1, 1-1/2 Inch

Primary Pressure Rating –

Maximum Primary Pressure ..... 250 PSIG (17.2 bar)

Secondary Pressure Range –

Standard Pressure ..... 2 to 125 PSIG (0 to 8.6 bar)

Temperature Rating ..... 32°F to 175°F (0°C to 80°C)

Weight – 3/4" ..... 4.2 lb. (1.9 kg)  
1" ..... 4.2 lb. (1.9 kg)  
1½" + ..... 5.3 lb. (2.4 kg)

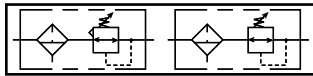
#### Materials of Construction

Adjusting Stem ..... Steel  
Body ..... Aluminum  
Bonnet ..... Aluminum  
Knob ..... Plastic  
Piston ..... Plastic  
Poppet Assembly ..... Brass  
Seals ..... Nitrile  
Springs – Poppet & Control ..... Steel

+ 1" Port Body with 1½" Port Block.

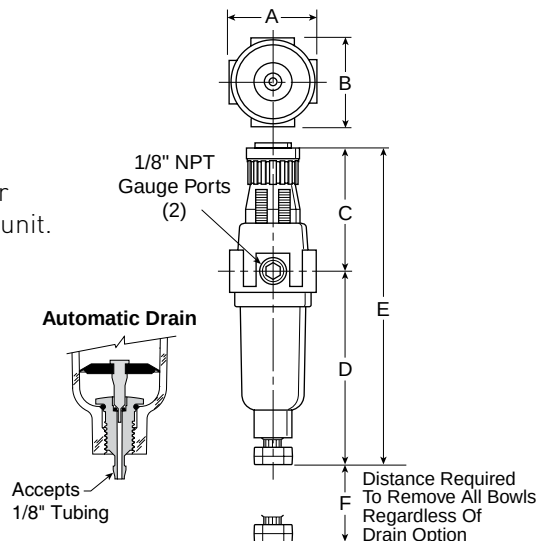
# Compressed Air Filters

## Air Preparation Units - 14E Filter/Regulator - Miniature 1/8", 1/4" NPT - Basic 1/8" Body



### Features

- Excellent water removal efficiency.
- Unbalanced poppet standard.
- Solid control piston for extended life.
- Space saving package offers both filter and regulator features in one integral unit.
- Non-rising adjustment knob.
- Two full flow 1/8" gauge ports.
- High Flow: 1/8" - 16 SCFM<sup>§</sup>  
1/4" - 18 SCFM<sup>§</sup>



| Port Size              | NPT         |                       |
|------------------------|-------------|-----------------------|
|                        | Twist Drain | Automatic Pulse Drain |
| Poly Bowl <sup>‡</sup> |             |                       |
| 1/8"                   | 14E01B13F*  | 14E05B13F*            |
| 1/4"                   | 14E11B13F*  | 14E15B13F*            |
| Metal Bowl             |             |                       |
| 1/8"                   | 14E03B13F*  | 14E07B13F*            |
| 1/4"                   | 14E13B13F*  | 14E17B13F*            |

<sup>‡</sup> For polycarbonate bowl see Caution on page A2.

<sup>§</sup> SCFM = Standard cubic feet per minute at 100 PSIG inlet,  
90 PSIG no flow secondary setting and 10 PSIG pressure drop.

NOTE: 1.218 Dia. (31mm) hole required for panel mounting.

### 14E Filter / Regulator Dimensions

| A              | B              | C             |
|----------------|----------------|---------------|
| 1.62<br>(41)   | 1.58<br>(40)   | 2.42<br>(61)  |
| D              | D <sup>†</sup> | E             |
| 3.79<br>(96)   | 3.64<br>(92)   | 6.21<br>(158) |
| E <sup>†</sup> | F              |               |
| 6.06<br>(154)  | 1.60<br>(41)   |               |

### Ordering Information

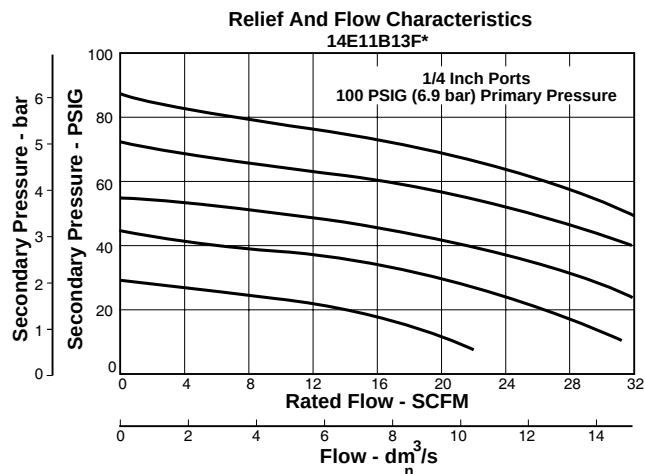
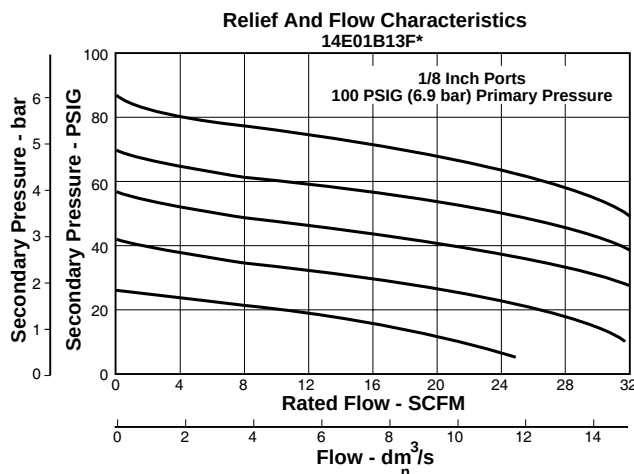
|     |   |   |   |    |   |   |   |   |     |
|-----|---|---|---|----|---|---|---|---|-----|
| 14E | 1 | 1 | B | 13 | F | * | — | — | --- |
|-----|---|---|---|----|---|---|---|---|-----|

|                                                                                                                                                   |                                      |                                                          |                                                                                                                      |                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Port Size</b><br>0 1/8 Inch<br>1 1/4 Inch                                                                                                      | <b>Elements</b><br>B 5 Micron        | <b>Relief</b><br>F Relieving                             | <b>Port Type</b><br>Blank NPT                                                                                        | <b>Preset / Pressure Limited</b><br>Blank None |
| <b>Bowl Options</b><br><u>Polycarbonate Bowl</u><br>1 Twist Drain<br>5 Automatic Drain<br><u>Metal Bowl</u><br>3 Twist Drain<br>7 Automatic Drain | <b>Pressure Range</b><br>13 125 PSIG | <b>Engineering Level</b><br>* Will be Entered at Factory | <b>Options</b><br>Blank No Options<br><sup>†</sup> Inlet Pressure is 100 PSIG. For other pressures, contact factory. |                                                |

# Compressed Air Filters

## Air Preparation Units - Prep Air II, 14E Filter/Regulators

### Technical Information



### CAUTION:

**REGULATOR PRESSURE ADJUSTMENT** – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



### WARNING

Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.

### 14E Filter / Regulator Kits & Accessories

#### Bowl Kits –

|                                    |         |
|------------------------------------|---------|
| Poly Bowl – Automatic Drain .....  | PS408BP |
| Twist Drain.....                   | PS404P  |
| Metal Bowl – Automatic Drain ..... | PS451BP |
| Twist Drain.....                   | PS447BP |

#### Filter Element Kits – 5 Micron..... PS403P

|              |                               |             |
|--------------|-------------------------------|-------------|
| Gauges –???? | 30 PSIG (0 to 2.1 bar).....   | K4515N18030 |
|              | 60 PSIG (0 to 4.1 bar).....   | K4515N18060 |
|              | 160 PSIG (0 to 11.0 bar)..... | K4515N18160 |

#### Mounting Bracket Kit (Includes Panel Mount Nut) .....PS417BP

#### Panel Mount Nut .....P78652

#### Poppet Kit – Unbalanced.....PS424BP

#### Service Kit – Relieving ..... PS423P

#### Springs – 2- 125 PSIG Range (Gold).....P01173

### Specifications

Automatic Pulse Drain Tube Barb ..... 1/8 Inch

Bowl Capacity ..... 1 Ounce

Gauge Ports (2) (Can be used for Full Flow) ..... 1/8 Inch

Port Threads ..... 1/8, 1/4 Inch

#### Pressure & Temperature Ratings –

Polycarbonate Bowl

0 to 150 PSIG (0 to 10.3 bar), 32°F to 125°F (0°C to 52°C)

Metal Bowl

0 to 250 PSIG (0 to 17.2 bar), 32°F to 175°F (0°C to 80°C)

#### Secondary Pressure Ranges –

Standard Pressure ..... 2 to 125 PSIG (0 to 8.6 bar)

Weight ..... 0.4 lb. (0.18 kg)

### Materials of Construction

Adjusting Nut ..... Brass

Adjusting Stem & Spring ..... Steel

Body ..... Zinc

Bonnet, Knob, Seat, Piston, Holder & Deflector ..... Plastic

Bowls Available – Transparent ..... Polycarbonate  
Metal (Without Sight Gauge) ..... Zinc

Drains – Manual – Twist Type

Body & Stem ..... Plastic

Seals..... Nitrile

Automatic – Pulse Type

Piston & Seals ..... Nitrile

Stem, Seat, Adaptor & Washers ..... Aluminum

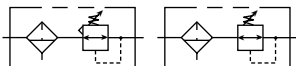
Filter Elements – 5 Micron (Standard)..... Plastic

Seals ..... Nitrile



# Compressed Air Filters

## Air Preparation Units - FB548 Filter/Regulator - Miniature 1/4" Ports

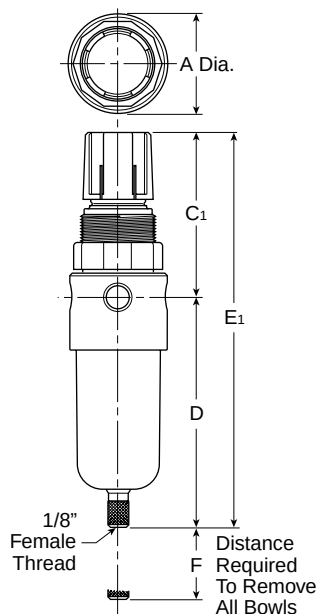


B548

### Features

- Stainless Steel Construction  
Handles Most Corrosive Environments
- Large Diaphragm To Valve Area Ratio For Precise Regulation And High Flow Capacity
- 1/8" Female Threaded Drain\*
- Meets NACE Specifications MR-01-75/ISO 15156.
- High Flow: 1/4" – 12 SCFM<sup>§</sup>

\* Beginning January 2008



| Port Size | NPT           |
|-----------|---------------|
| 1/4"      | FB548-02DGCSS |

<sup>§</sup> SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 15 PSIG pressure drop.

| FB548 Piggyback Dimensions |                |              |
|----------------------------|----------------|--------------|
| A                          | C <sub>1</sub> | D            |
| 1.56<br>(40)               | 2.17<br>(55)   | 3.63<br>(92) |
| E <sub>1</sub>             | F              |              |
| 3.06<br>(78)               | 1.58<br>(40)   |              |

inches (mm)

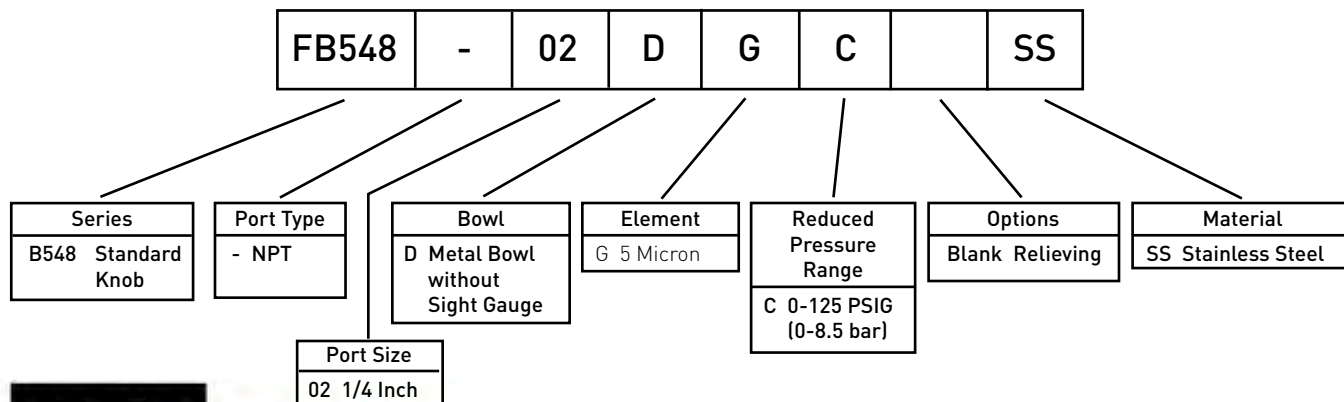
NOTE: 1.25 Dia. (32mm) hole required for panel mounting.



### WARNING

Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.

## Ordering Information

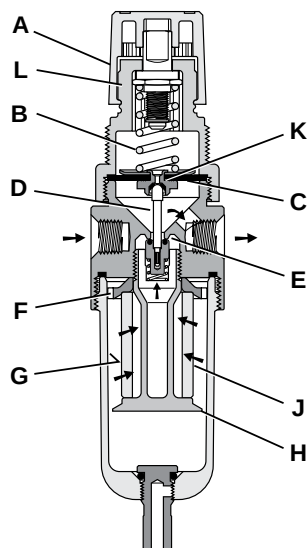


# Compressed Air Filters

## Air Preparation Units - FB548 Filter/Regulators

### Technical Information

#### Operation



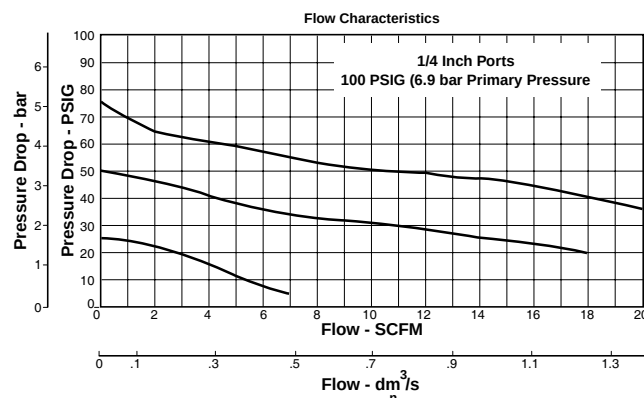
Turning the adjusting knob clockwise applies a load to control spring (B) which forces diaphragm (C) and valve poppet assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the poppet assembly and the seat. "First stage filtration". Air pressure supplied to the inlet port is directed through deflector plate (F) causing a swirling centrifugal action forcing liquids and coarse particles to the inner bowl wall (G) and down below the lower baffle (H) to the quiet zone. After liquids and large particles are removed in the first stage of filtration "second stage filtration" occurs as air flows through element (J) where smaller particles are filtered out and retained. The air flow now passes through seat area (E) to the outlet port of the unit. Pressure in the downstream line is sensed below the diaphragm (C) and offsets the load of spring (B). When downstream pressure reaches the set-point, poppet valve assembly (D) and diaphragm (C) move upward closing seat area (E). Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm (C) to move upward opening vent hole (K) venting the excess pressure to atmosphere through the hole in the bonnet (L). (This occurs in the standard relieving type filter/regulators only.)

#### Technical Information

##### CAUTION:

**REGULATOR PRESSURE ADJUSTMENT** – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



#### FB548, Regulator Kits & Accessories

|                                        |               |
|----------------------------------------|---------------|
| FB548 Bonnet Kit (Knob Included) ..... | CKR364YSS     |
| Filter Element Kits –                  |               |
| Particulate (5 Micron).....            | EK504VY       |
| Gauge –                                |               |
| 160 PSIG [0 to 1100 kPa], 2" Face..... | K4515N14160SS |
| Manual Twist Drain .....               | SA600Y7-1SS   |
| Panel Mount Bracket (Stainless).....   | 161X57-SS     |
| Panel Mount Nut –                      |               |
| Stainless .....                        | R05X51-SS     |
| Plastic .....                          | R05X51-P      |
| Service Kit –                          |               |
| Relieving .....                        | RK549YSS      |
| Springs –                              |               |
| 0-125 PSIG Range .....                 | SPR-377-1-SS  |

#### Specifications

|                                        |                              |
|----------------------------------------|------------------------------|
| Bowl Capacity .....                    | 1.0 Ounces                   |
| Filter Rating .....                    | 5 Micron                     |
| Gauge Port .....                       | 1/4 Inch                     |
| Operation .....                        | Fluorocarbon Diaphragm       |
| Port Threads .....                     | 1/4 Inch                     |
| Pressure & Temperature Ratings – ..... | 300 PSIG Max (20.7 bar)      |
|                                        | 0°F to 150°F (-18°C to 66°C) |

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C).

|                     |                   |
|---------------------|-------------------|
| Sump Capacity ..... | 0.4 Ounce         |
| Weight .....        | 0.6 lb. (0.27 kg) |

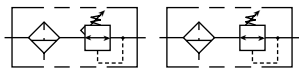
#### Materials of Construction

|                                      |                     |
|--------------------------------------|---------------------|
| Adjustment Mechanism / Springs ..... | 316 Stainless Steel |
| Body .....                           | 316 Stainless Steel |
| Bonnet (B548) .....                  | Acetal              |
| Bottom Plug .....                    | 316 Stainless Steel |
| Knob (B548) .....                    | Polypropylene       |
| Poppet .....                         | 316 Stainless Steel |
| Seals .....                          | Fluorocarbon        |



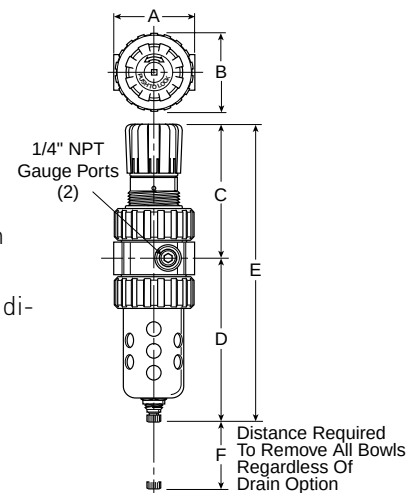
# Compressed Air Filters

## Air Preparation Units - 06E Filter/Regulator - Compact 1/4", 3/8", 1/2" NPT - Basic 3/8" Body



### Features

- Space saving package offers both filter and regulator features for optimal performance.
- Excellent water removal efficiency.
- Rolling diaphragm for extended life.
- Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure.
- Two high flow 1/4" gauge ports can be used as additional outlets.
- Shown with recommended metal bowl guard.
- High Flow: 1/4" - 46 SCFM<sup>§</sup>  
3/8" - 55 SCFM<sup>§</sup>  
1/2" - 61 SCFM<sup>§</sup>



| Port Size                            | NPT         |                       |
|--------------------------------------|-------------|-----------------------|
|                                      | Twist Drain | Automatic Float Drain |
| Poly Bowl <sup>‡</sup> / Metal Guard |             |                       |
| 1/4"                                 | 06E12B13A*  | 06E16B13A*            |
| 3/8"                                 | 06E22B13A*  | 06E26B13A*            |
| 1/2"                                 | 06E32B13A*  | 06E36B13A*            |
| Metal Bowl / Sight Gauge             |             |                       |
| 1/4"                                 | 06E14B13A*  | 06E18B13A*            |
| 3/8"                                 | 06E24B13A*  | 06E28B13A*            |
| 1/2"                                 | 06E34B13A*  | 06E38B13A*            |

| 06E Filter / Regulator Dimensions |                |                |               |
|-----------------------------------|----------------|----------------|---------------|
| A                                 | B              | C              | D             |
| 2.81<br>(71)                      | 2.74<br>(70)   | 4.69<br>(119)  | 5.69<br>(145) |
| D <sup>†</sup>                    | E              | E <sup>†</sup> | F             |
| 5.74<br>(146)                     | 10.38<br>(264) | 10.43<br>(265) | 2.25<br>(57)  |

Inches (mm)  
† With Twist Drain or Auto Pulse Drain

<sup>‡</sup>For polycarbonate bowl see Caution on page 2.

<sup>§</sup>SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

NOTE: 2.00 Dia. (50.8 mm) hole required for panel mounting. Max. panel thickness 1/4".

### WARNING

Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.

### Ordering Information

|     |   |   |   |    |   |   |   |   |     |
|-----|---|---|---|----|---|---|---|---|-----|
| 06E | 1 | 2 | B | 13 | A | * | — | — | --- |
|-----|---|---|---|----|---|---|---|---|-----|

| Port Size  |
|------------|
| 1 1/4 Inch |
| 2 3/8 Inch |
| 3 1/2 Inch |

| Elements   |
|------------|
| B 5 Micron |

| Relief      |
|-------------|
| A Relieving |

| Port Type                                  |
|--------------------------------------------|
| Blank NPT                                  |
| * 1/4 & 3/8 inch meet ISO 1179-1 Standard. |

| Preset     |
|------------|
| Blank None |

| Bowl Options                          |                                  |
|---------------------------------------|----------------------------------|
| <u>Polycarbonate Bowl</u>             | <u>Metal Bowl</u>                |
| 2 Metal Bowl Guard / Twist Drain      | 4 Sight Gauge / Twist Drain      |
| 6 Metal Bowl Guard / Auto Float Drain | 8 Sight Gauge / Auto Float Drain |

| Pressure Range |
|----------------|
| 13 125 PSIG    |

| Engineering Level            |
|------------------------------|
| * Will be Entered at Factory |

| Options                                                             |
|---------------------------------------------------------------------|
| Blank No Options                                                    |
| † Inlet Pressure is 100 PSIG. For other pressures, contact factory. |

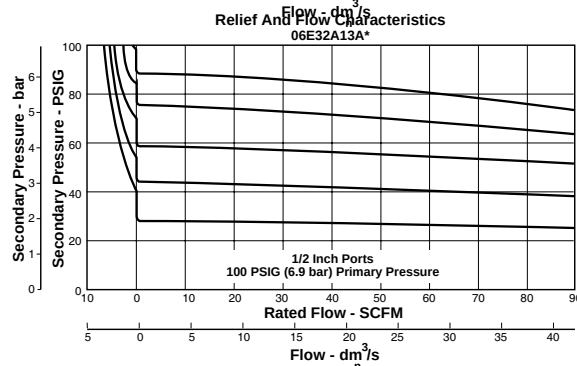
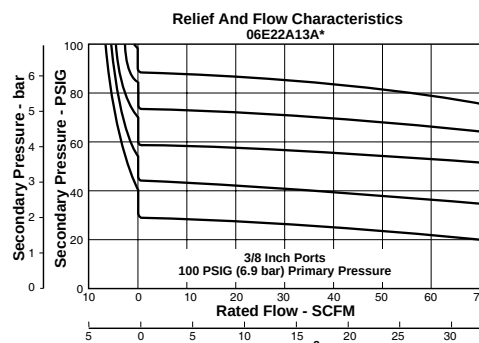
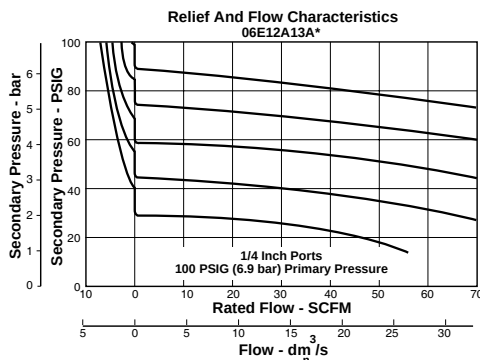




# Compressed Air Filters

## Air Preparation Units - 06E Filter/Regulators

### Technical Information



### CAUTION:

**REGULATOR PRESSURE ADJUSTMENT** – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

### 06E Filter / Regulator Kits & Accessories

|                                                       |             |
|-------------------------------------------------------|-------------|
| Bonnet Assembly Kit .....                             | PS715P      |
| Bowl Guard Kit .....                                  | PS705P      |
| Bowl Kits –                                           |             |
| Poly Bowl – Automatic Float Drain .....               | PS722P      |
| Twist Drain .....                                     | PS732P      |
| Metal Bowl – Sight Gauge / Automatic Drain .....      | PS723P      |
| Sight Gauge / Twist Drain .....                       | PS735P      |
| Control Knob .....                                    | P04069B     |
| Drain Kit – Automatic Float Drain .....               | PS506P      |
| Twist Drain .....                                     | PS512P      |
| Filter Element Kits – 5 Micron .....                  | PS702P      |
| Gauges – 60 PSIG (0 to 4.1 bar) .....                 | K4520N14060 |
| 160 PSIG (0 to 11.0 bar) .....                        | K4520N14160 |
| Mounting Bracket Kit (Includes Panel Mount Nut) ..... | PS707P      |
| Panel Mount Nut .....                                 | P04082      |
| Service Kits – Non-Relieving (Includes Poppet) .....  | PS711P      |
| Relieving (Includes Poppet) .....                     | PS710P      |
| Seat Insert Kit .....                                 | PS713P      |
| Spring – 2- 125 PSIG Range .....                      | P04063      |
| Tamperproof Kit (Key Lock) .....                      | PS737P      |

### Specifications

|                                                         |                    |
|---------------------------------------------------------|--------------------|
| Bowl Capacity .....                                     | 4.4 Ounces         |
| Gauge Ports (2) .....                                   | 1/4 Inch           |
| [Can be used as Additional Full Flow 1/4" Outlet Ports] |                    |
| Port Threads .....                                      | 1/4, 3/8, 1/2 Inch |

### Pressure & Temperature Ratings –

Polycarbonate Bowl – 0 to 150 PSIG (0 to 10.4 bar)  
32°F to 125°F (0°C to 52°C)

Metal Bowl – 0 to 250 PSIG (0 to 17.2 bar)  
32°F to 175°F (0°C to 80°C)

Automatic Float Drain – 15 to 250 PSIG (1.0 to 17.2 bar)

### Secondary Pressure Range –

Standard Pressure ..... 2 to 125 PSIG (0 to 8.6 bar) |

Sump Capacity ..... 1.75 Ounces |

Weight ..... 1.6 lb. (0.7 kg) |

### Materials of Construction

|                                             |                                  |
|---------------------------------------------|----------------------------------|
| Adjusting Stem .....                        | Steel                            |
| Body .....                                  | Zinc                             |
| Bonnet, Internal Parts .....                | Plastic                          |
| Bowls Available – Transparent .....         | Polycarbonate                    |
| Metal (With or Without Sight Gauge) .....   | Zinc                             |
| Bowl Guard .....                            | Steel                            |
| Collar .....                                | Plastic                          |
| Diaphragm .....                             | Nitrile                          |
| Drains – Manual Twist Drain Standard        |                                  |
| Body & Nut .....                            | Plastic                          |
| Automatic Float Drain Optional              |                                  |
| (Interchangeable for Field Conversions)     |                                  |
| Operating Range .....                       | 10 to 250 PSIG (1.7 to 17.2 bar) |
| Housing, Float .....                        | Plastic                          |
| Seals .....                                 | Nitrile                          |
| Springs, Push Rod .....                     | Stainless Steel                  |
| Knob .....                                  | Plastic                          |
| Filter Elements – 5 Micron (Optional) ..... | Plastic                          |

Seals ..... Nitrile |

Sight Gauge ..... Polyamide |

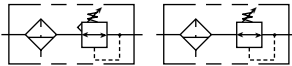
Springs – Poppet ..... Stainless Steel |

Control ..... Steel |



# Compressed Air Filters

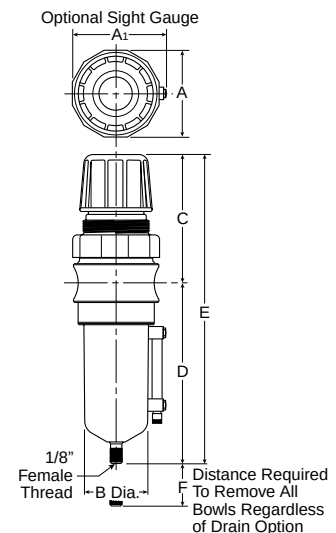
## Air Preparation Units - FB11 Filter/Regulator - Standard 1/2" Ports



B11

### Features

- Stainless steel construction handles most corrosive environments.
- Large diaphragm to valve area ratio for precise regulation and high flow capacity.
- 1/8" female threaded drain.
- Meets NACE specifications MR-01-75/ISO-15156.
- Low temperature version available.
- High Flow: 1/2" - 72 SCFM<sup>§</sup>



FB11

| Port Size | Adjustment Type                    | NPT                 |                       | BSPP                |                       |
|-----------|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
|           |                                    | Manual Twist Drain  | Automatic Float Drain | Manual Twist Drain  | Automatic Float Drain |
| 1/2"      | <b>Metal Bowl with Sight Gauge</b> |                     |                       |                     |                       |
|           | Knob                               | <b>FB11-04WGCSS</b> | <b>FB11-04WGRSS</b>   | <b>FB11G04WGCSS</b> | <b>FB11G04WGRSS</b>   |

Standard part numbers shown bold. For other models refer to ordering information below.

<sup>§</sup> SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 15 PSIG pressure drop.

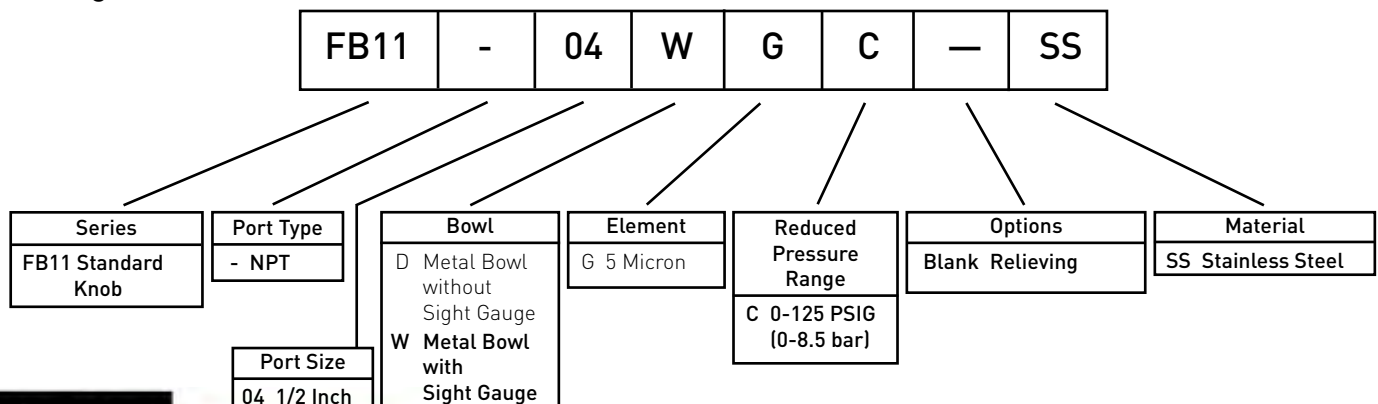
| FB11 Piggyback Dimensions |               |               |
|---------------------------|---------------|---------------|
| A                         | A1            | B             |
| 2.34<br>[60]              | 2.50<br>[64]  | 1.75<br>[44]  |
| C                         | D             | E             |
| 3.59<br>[91]              | 5.00<br>[127] | 8.59<br>[218] |
| F                         |               |               |
| 2.12<br>[54]              |               |               |

inches (mm)  
NOTE: 1.75 Dia. (44mm) hole required for panel mounting.

### WARNING

Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.

### Ordering Information

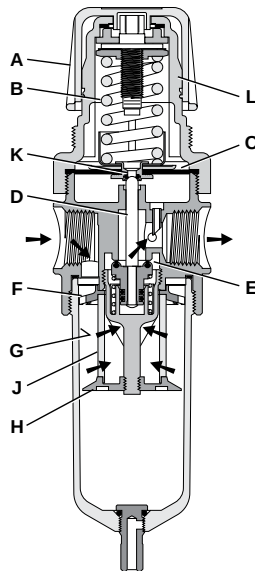


# Compressed Air Filters

## Air Preparation Units - FB11 Filter/Regulators

### Technical Information

#### Operation



Turning the adjusting knob clockwise applies a load to control spring (B) which forces diaphragm (C) and valve poppet assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the poppet assembly and the seat. "First stage filtration".

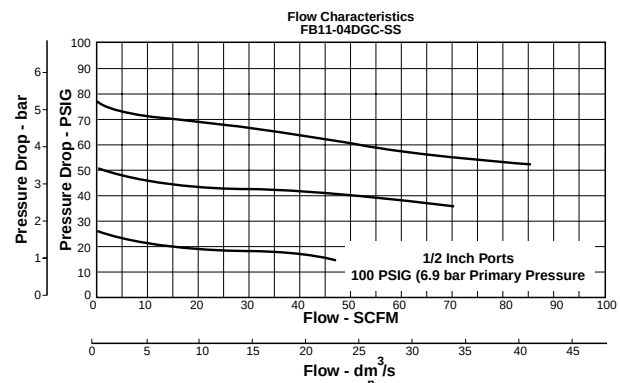
Air pressure supplied to the inlet port is directed through deflector plate (F) causing a swirling centrifugal action forcing liquids and coarse particles to the inner bowl wall (G) and down below the lower baffle (H) to the quiet zone. After liquids and large particles are removed in the first stage of filtration "second stage filtration" occurs as air flows through element (J) where smaller particles are filtered out and retained. The air flow now passes through seat area (E) to the outlet port of the unit. Pressure in the downstream line is sensed below the diaphragm (C) and offsets the load of spring (B). When downstream pressure reaches the set-point, poppet valve assembly (D) and diaphragm (C) move upward closing seat area (E). Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm (C) to move upward opening vent hole (K) venting the excess pressure to atmosphere through the hole in the bonnet (L). (This occurs in the standard relieving type filter/regulators only.)

#### Technical Information

##### CAUTION:

**REGULATOR PRESSURE ADJUSTMENT** – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



#### FB11 Regulator Kits & Accessories

|                                        |               |
|----------------------------------------|---------------|
| FB11 Bonnet Kit (Knob Included) .....  | CKR10YSS      |
| Drain Kit –                            |               |
| Automatic Float Drain .....            | SA602MDSS     |
| Manual Twist Drain .....               | SA600Y7-1SS   |
| Filter Element Kit –                   |               |
| Particulate (5 Micron).....            | EKF10VY       |
| Gauge –                                |               |
| 160 PSIG (0 to 1100 kPa), 2" Face..... | K4520N14160SS |
| Panel Mount Bracket (Stainless).....   | R10Y57-SS     |
| Panel Mount Nut –                      |               |
| Stainless .....                        | R10X51-SS     |
| Plastic .....                          | R10X51-P      |
| Service Kit –                          |               |
| Relieving .....                        | RKR10YSS      |

|                        |              |
|------------------------|--------------|
| Spring –               |              |
| 0-125 PSIG Range ..... | SPR-389-1-SS |

#### Materials of Construction

|                                      |                     |
|--------------------------------------|---------------------|
| Adjustment Mechanism / Springs ..... | 316 Stainless Steel |
| Body .....                           | 316 Stainless Steel |
| Bonnet / Knob (B11) .....            | Acetal              |
| Bottom Plug .....                    | 316 Stainless Steel |
| Poppet .....                         | 316 Stainless Steel |
| Seals .....                          | Fluorocarbon        |
| Sight Gauge .....                    | Isoplast            |

#### Specifications

|                                  |                                                               |
|----------------------------------|---------------------------------------------------------------|
| Bowl Capacity .....              | 4.0 Ounces                                                    |
| Filter Rating .....              | 5 Micron                                                      |
| Gauge Port .....                 | 1/4 Inch                                                      |
| Operation .....                  | Fluorocarbon Diaphragm                                        |
| Port Threads .....               | 1/2 Inch                                                      |
| Pressure & Temperature Ratings – |                                                               |
| Metal Bowl (D) .....             | 300 PSIG Max (20.7 bar)<br>0°F to 150°F (-18°C to 66°C)       |
| Metal Bowl (W) .....             | 0 to 250 PSIG (0 to 17.2 bar)<br>0°F to 150°F (-18°C to 66°C) |
| Automatic Float Drain .....      | 15 to 175 PSIG (1 to 12 bar)<br>40°F to 125°F (4°C to 52°C)   |

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C).

|                     |                    |
|---------------------|--------------------|
| Sump Capacity ..... | 1.7 Ounce          |
| Weight .....        | 2.42 lb. (1.09 kg) |

## North America

### Engine Filtration

Parker Hannifin Corporation  
**Racor Division**  
 3400 Finch Road  
 P.O. Box 3208  
 Modesto, CA 95354  
 phone 209 521 7860  
 fax 209 529 3278  
[www.parker.com/racor](http://www.parker.com/racor)

Parker Hannifin Corporation  
**Racor Division**  
 P.O. Box 6030  
 Holly Springs, MS 38635  
 phone 662 252 2656  
 fax 662 274 2118  
[www.parker.com/racor](http://www.parker.com/racor)

Parker Hannifin Corporation  
**Racor Division**  
 302 Parker Drive  
 Beaufort, SC 29906  
 phone 843 846 3200  
 fax 843 846 3230  
[www.parker.com/racor](http://www.parker.com/racor)

### Compressed Air Treatment

Parker Hannifin Corporation  
**Filtration and Separation Division**  
**Balston Operation**  
 242 Neck Road  
 Haverhill, MA 01835-0723  
 phone 978 858 0505  
 fax 978 556 7501  
[www.balstonfilters.com](http://www.balstonfilters.com)

Parker Hannifin Corporation  
**Filtration and Separation**  
**Finite Filter Operation**  
 500 Glaspie Street  
 P.O. Box 599  
 Oxford, MI 48371-5132  
 phone 248 628 6400  
 fax 248 628 1850  
[www.parker.com/finitefilter](http://www.parker.com/finitefilter)

Parker Hannifin Corporation  
**Airtek Division**  
 4087 Walden Avenue  
 Lancaster, NY 14086  
 phone 716 685 4040  
 fax 716 685 1010  
[www.airtek.com](http://www.airtek.com)

### Hydraulic Filtration

Parker Hannifin Corporation  
**Hydraulic Filter Division**  
 16810 Fulton County Road #2  
 Metamora, OH 43540-9714  
 phone 419 644 4311  
 fax 419 644 6205  
[www.parker.com/hydraulicfilter](http://www.parker.com/hydraulicfilter)

### Process Filtration

Parker Hannifin Corporation  
**Process Advanced Filtration**  
 2340 Eastman Avenue  
 Oxnard, CA 93030  
 phone 805 604 3400  
 fax 805 604 3401  
[www.parker.com/processfiltration](http://www.parker.com/processfiltration)

## Europe

### Engine Filtration

Parker Hannifin Corporation  
**Filter Division Europe**  
 Shaw Cross Business Park  
 Churwell Vale  
 Dewsbury, WF12 7RD England  
 phone +44 (0) 1924 487000  
 fax +44 (0) 1924 487038  
[www.parker.com/rfde](http://www.parker.com/rfde)

### Compressed Air Treatment

Parker Hannifin Corporation  
**domnick hunter industrial operations**  
 Dukesway, Team Valley Trading Estate  
 Gateshead, Tyne & Wear  
 England NE11 0PZ  
 phone +44 (0) 191 402 9000  
 fax +44 (0) 191 482 6296  
[www.domnickhunter.com](http://www.domnickhunter.com)

Parker Hannifin Corporation  
**Parker Hiross S.p.A.**  
 Strada Zona Industriale, 4  
 35020, S. Angelo di Piove(PD), Italy  
 phone +39 049 9712 111  
 fax +39 049 7001 111  
[www.dh-hiross.com](http://www.dh-hiross.com)

Parker Hannifin Corporation  
**ZANDER Aufbereitungstechnik GmbH**  
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